



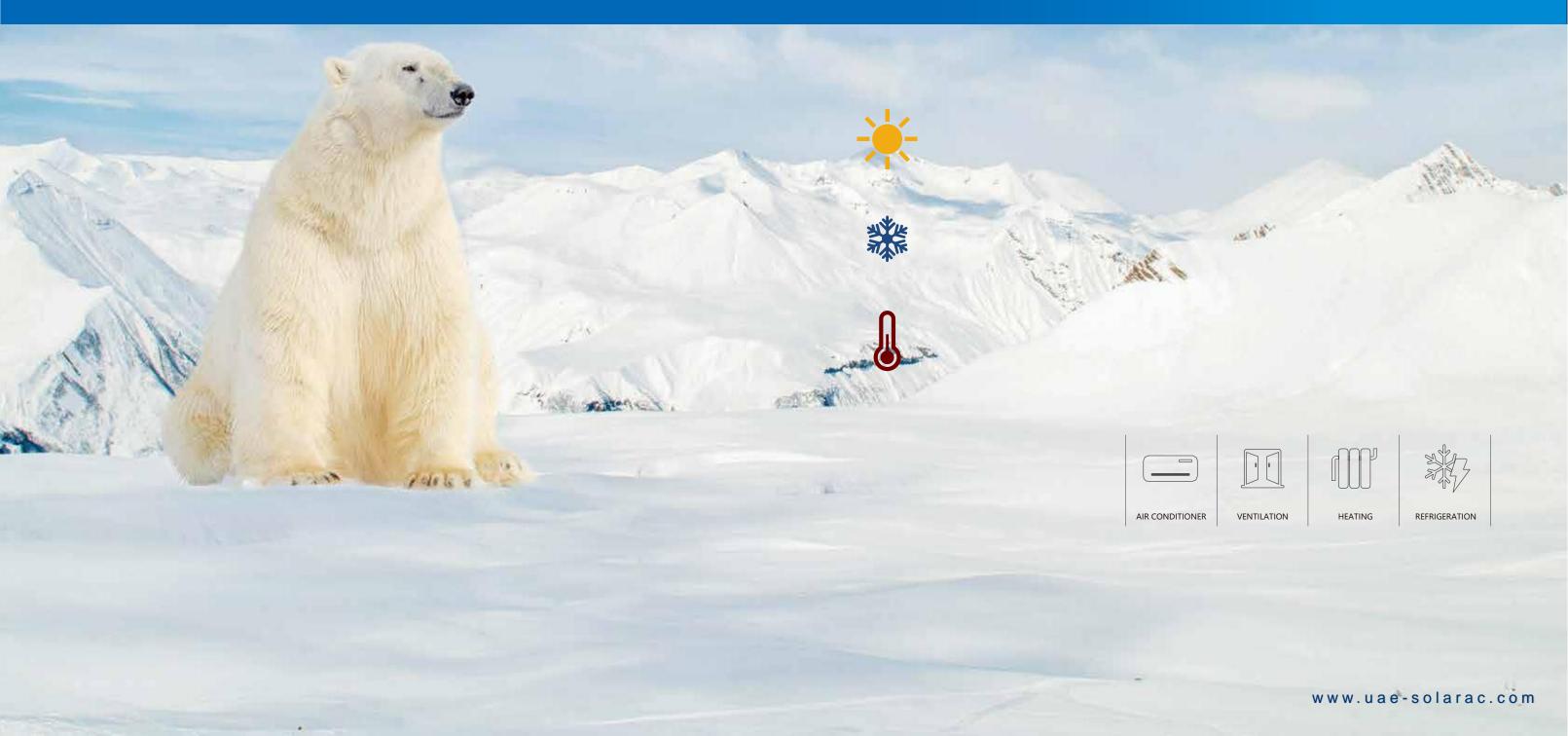
Al Saif Building, Outlet No.6, Ground Floor, Ras Al Khaimah, United Arab Emirates. support@skydaysolar.com, www.uae-solarac.com

Committed to reducing the greenhouse effect

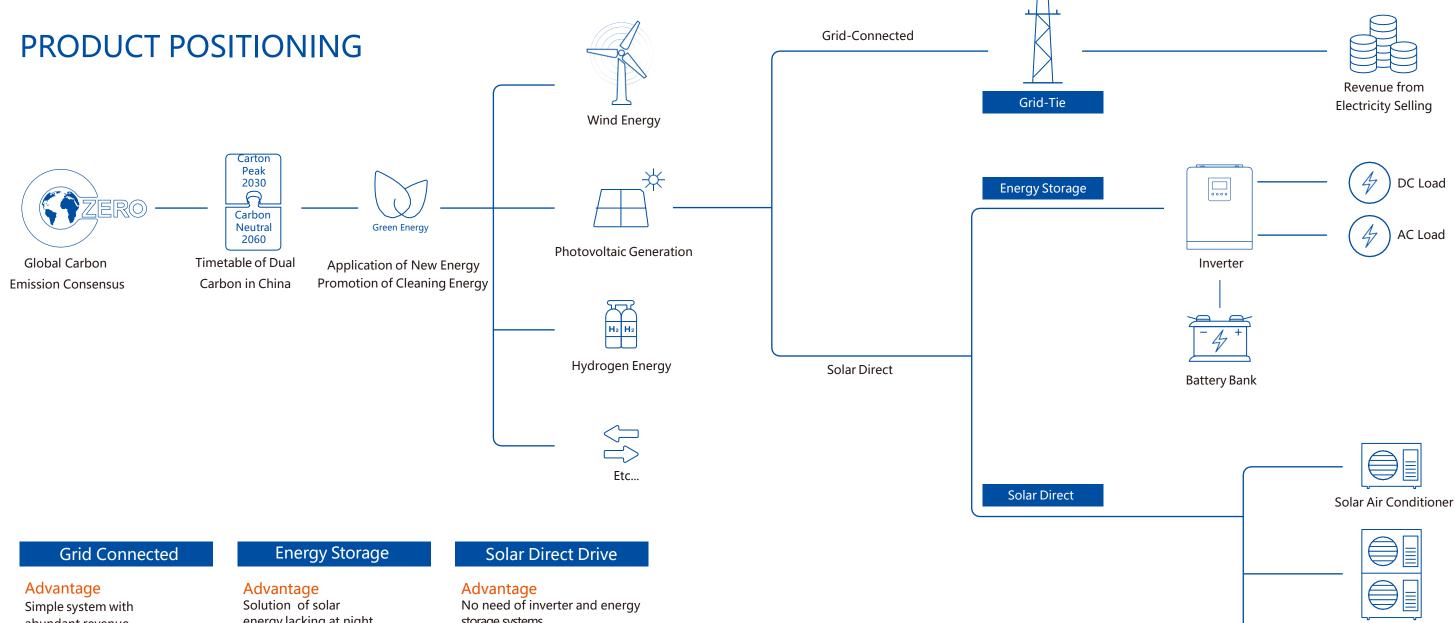


ENTERPRISE VISION

Energy application innovation, enjoy unlimited warm & cool life. To be the 1ST class energy-saving electrical solution provider.







Simple system with abundant revenue.

Moderate maintenance cost.

Disadvantages:

Investment revenue affected by the policy.
Long return period.

Application

Abundant sunlight and large-scale solar energy generation.

Solution of solar energy lacking at night.
AC equipment can be used through energy storage.

Disadvantages:

High investment and maintenance cost.
Limited application area and DC equipment.

Application

Stable power demand.

storage systems.

Highest utilization rate of solar energy.

Low maintenance cost. Higher electricity price, higher ROI.

Disadvantages:

No backup, use city power only at night.

Application

Stable need for air conditioner and hot water during the day. Areas of high electricity price in the daytime Solar Heat Pump

DC Load

Etc...



CORE TECHNOLOGY

Self-Dependent Innovation

ADH Seamless Multi-Energy Switching Control Technology

Seamless switch between dual power inputs.

The use of green energy as priority.

Significantly energy consumption reduction

ADMS Intelligent Energy Management System

Cross-industry integration of new energy introduction solutions using highspeed DSP chips which integrates the control and calculation of BLDC motor drive (FOC), air conditioner frequency control (compressor, fan, etc. operation), AC/DC conversion, DC/DC power following (MPPT) and conversion, solenoid valve, stepper motor, etc., by using innovative green energy methods such as solar power generation, wind power, and photovoltaic storage with air conditioner energy consumption.

The sampling of current, voltage, speed, temperature, etc. of each input circuit is integrated into one chip for driving and regulation, which is an innovative example of cross-industry application of new technology.



Core Moudle: PCBA unit



DC Inverter

Compressed Drive

Conversion

Power

&Power Tracking

Space Vector Control(FOC)

MPPT & DC BOOST



Human-Machine

Interaction

&Temperature Control

Control Technology Platform







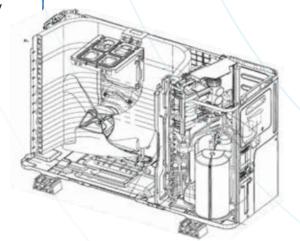


AIR CONDITIONER





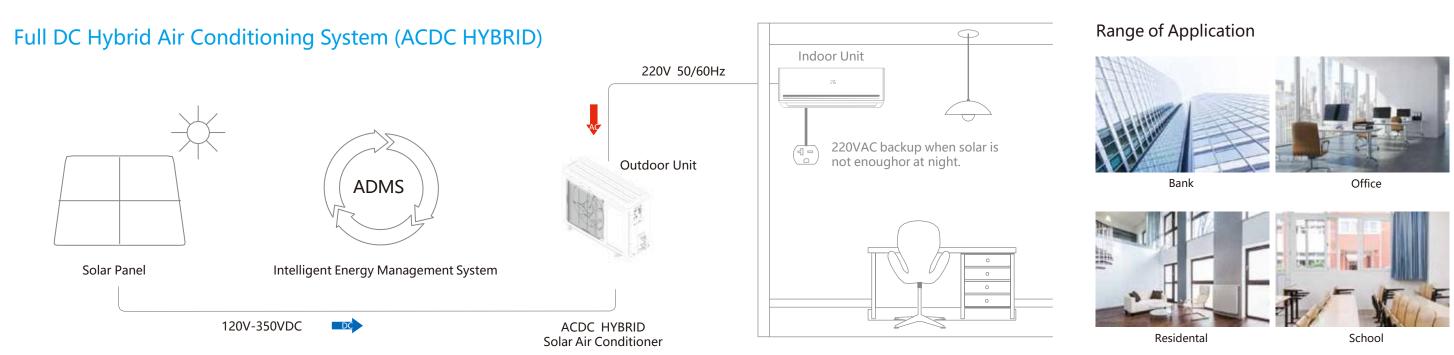
VENTILATION

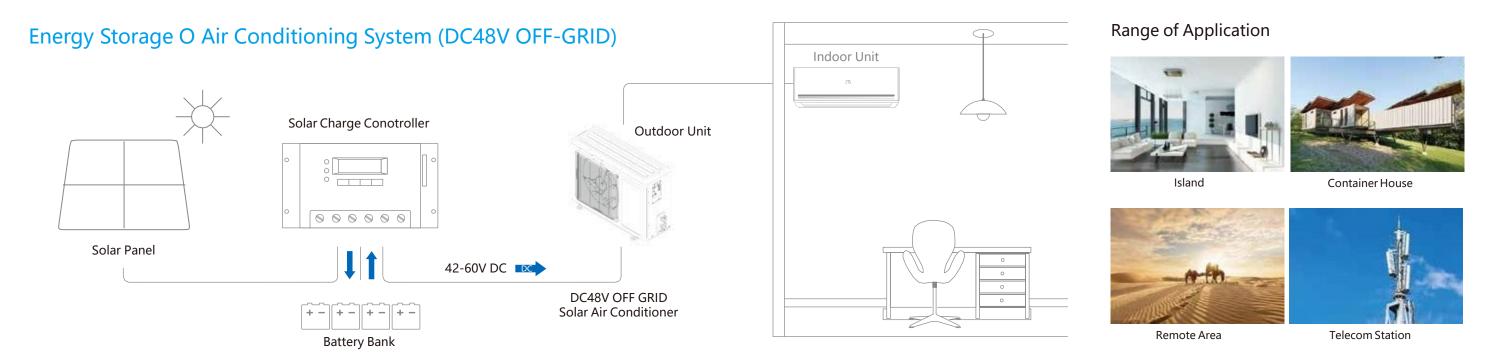






SOLAR AIR CONDITIONING SYSTEM WORKING PRINCIPLE





SKYDAY SOLAR AIR CONDITIONERS

PRODUCT SERIES

Mars























Model			ACDC HYBRID 12 DC48 12V RFYZ	ACDC HYBRID 18	A CDC LIVERID 24
	- "			DC48 18V RFYZ	ACDC HYBRID 24
Capacity –	Cooling		12,000Btu/ 1.5P/ 1Ton	18,000Btu/ 2.0P/ 1.5Ton	24,000Btu/ 3.0P/ 2.0Tor
	Heating		12,000Btu/ 1.5P/ 1Ton	18,000Btu/ 2.0P/ 1.5Ton	24,000Btu/ 3.0P/ 2.0Tor
Electric Data					
Power Input –	Cooling	W	825	1320/1250	1980
	Heating	W	840 / 800	1290/1200	1880
Rated Current –	Cooling	Α	3.8 / 17.5	6/26.5	9
	Heating	Α	3.8 / 17.0	5.86/25	8.54
Power Supply		Ph,V,Hz	1Ph, 208-230V, 50/60Hz	1Ph, 208-230V, 50/60Hz	1Ph, 208-230V, 50/60Hz
117		V	DC120-350V / DC42-60V	DC120-350V/DC42-60V	DC120-350V
Performance					
EER –	Cooling	W/W	4.24	3.86 / 3.84	3.54
	Heating	W/W	4.16 / 4.37	3.95 / 4	3.78
СОР	Cooling	W/W	6.8	6.4	6.1
	Heating	W/W	3.2	3.2	3.2
Airflow	Indoor unit	M³/H	700	1000	1200
Noise -	Indoor unit	dB(A)	24-37-42	33-41-44	38-45-48
	Outdoor unit	dB(A)	< 51	< 54	< 56
Dimonsion & Weight					
Dimonsion & Weight_ (Wx H x D)	Indoor unit	MM	860*308*215	1078*325*257	1078*325*257
	Outdoor unit	MM	874*559*353	874*559*353	989*715*400
Body Dimension (Wx H x D)		MM	923*365*280	1169*405*366	1169*405*366
	Outdoor unit	MM	913*604×383	913*604×383	1039*780*468
Net Weight _	Indoor unit	KG	11/13	17/20	17/20
	Outdoor unit	KG	30/33	35/39	44/49
Loading Quantity (units only)	40'HQ	PCS	230	180	125
Swing(U&D, L&R)		/	U&D	U&D, L&R	U&D, L&R
Liquid Quantity (R410A)		KG	1.10	1.26	1.40
	,				





















